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AS TO ROAD MAKING

Ideas Suggested by Frequent Journeys Along Grand Avenue.

Glendale, Feb. 28 (Special Correspondence of The Republican). "Where are the roads of yesterday? The wind has blown them all away."

Frequent faring on the avenue called Grand prompts some reflections on roads and the making of them. The building of highways worthy the name is at once the most modern and most historic of arts. From the days of the Appian Way men have added but little to the knowledge of the subject. There have been long periods of forgetfulness, and then a slow reaching upward to the light of other days. With the bicycle and the automobile has latterly come a revival that in this century should produce important results. But what interests us here and now is the sad fact that we haven't even begun to learn. To date, our experiments in road making simply go to show that large sums of money can be spent in a very short time with a minimum of practical benefit. I wish I could state this in stronger terms. Take Grand avenue, for instance. Improving that road cost probably \$2,000 per mile at least. Of the whole nine miles to Phoenix there are only three miles that have proved of any substantial value. That is the stretch from here to Jack's ranch, and this could be bettered without any material increase in initial expense. From Jack's ranch to Alhambra a mountaineer would hardly call it good, and from the latter point to the city limits, with few exceptions, one is reminded continually of the sad refrain I started with. What we need is a little scientific study of materials and a little more horse sense in making a road after we find the best. One fact is demonstrated to my mind beyond peradventure, and that is worthless-ness of decomposed granite for a permanent road and the futility of its continued use for that purpose. It is fit only for sidewalks, bicycle paths or roads from which heavy traffic is tabooed. It simply won't wear, Messieurs. This material has been chosen in most cases. I take it, because from a smooth roadway can so readily be made. And that same adaptability is its greatest shortcoming. It grinds up and presses down easily and then it keeps on grinding up, and after a bit your beautiful granite highway is a perforation of ruts and chuck holes. Of course by piling on more material you may increase the life of such a road, but there you butt up against Charybdis. In building roads expense is, after durability, the most important consideration. There are plenty of materials that would make perfect roads, but the Harrison ash still looms and the best crop is short. So far as our experience goes the rock used on the avenue from Glendale to Jack's ranch is the best available. It is a kind of silty porphyry, wears like iron and of such structure as to be easily quarried. The rock used on the road from Jack's to Alhambra is of a similar nature, and would probably be as good if properly prepared and placed. This rock should have been crushed to the size of a walnut and then pressed down with a roller of sufficient weight to make a smooth surface. Most rocks in this country contain a certain proportion of lime. Such material would be valuable for surfacing a foundation of other rock in some cases. The Santa Fe has used for its crossings a conglomerate of waterworn material from the so-called caliche hills near the Agua Fria. It is of importance to note that this material when properly placed has worn away but slightly in years under the heaviest traffic. Good roads are the cheapest works a municipality can undertake if only a modicum of brains go into the making of them.

Alex. Silva is seriously ill with an attack of pneumonia. The fans all hiked out to the woods today. There's a game scheduled with the St. John's boys down where the Saltburger don't flow. They took Algy along for mascot. Superintendent Hamlin of the Relief came down from the mine Saturday, enroute to Phoenix. Miss Lulu Eyer and Miss Ellington of Phoenix are spending a few days with Miss Belle Eyer. There is a marked renaissance of interest in the enterprise being promoted by the Verde Water & Power Co. This was caused primarily by the ability of several men from Kansas, who came to look over the ground. On Tuesday a party started for the Horse-shoe damsite on the Verde river, in charge of Major S. C. Symonds, one of the officials of the company. Included in the party were A. B. Taylor of Burton, Kas.; J. Y. Shelly of Hutchinson, Kas.; Mr. Arice of Sterling, Kas.; Wm. Smith of Winfield, Kas.; J. W. Forney, A. T. Entice, Harry Barber and Ray Lehman. W. D. Turnam, of Eckridge, Kansas, who has been sojourning here most of the winter, accompanied the party as official reporter and photographer. They drove fifty miles the first day and camped at Camp Creek. The next morning they went fifteen miles to the damsite and returned to their camping place Wednesday night, returning the next day to the route of the proposed canal. Of the main canal 22 1/2 miles has been completed and a tunnel to tap the reservoir. This tunnel is 900 feet through the granite and is about twelve feet in diameter. Mr. Turnam secured some interesting pictures of sights and scenery en route. Among them is a giant cactus which is most fearfully shaped. It is the oddest specimen I ever recall having seen. A curious phenomenon was observed at the Verde one and one-half miles below the Horse-shoe damsite. The river at this point runs through water at the present low stage to keep this side of the river evergreen, and leave all of the flow from the Salt proper to the south side. From this it would appear that we need an underflow dam at the Arizona head. Most of the party expressed themselves as favorably impressed with the proposition of the Verde company. John Forney, who is nothing if not conservative, subscribed for a water right upon his return.

Alfred Myers, of Abilene, Kansas, arrived Saturday morning. He is a cousin of E. F. Iscol and will spend a few weeks at the latter's home near town.

The Odd Fellows met in regular session Saturday night. One application for membership was received and routine business transacted. V. E. Mesinger was elected representative to

the Grand Lodge which meets at Tucson in April. By request of the lodge the first degree will be conferred on A. W. Bennett, one of the recent initiates by the degree staff of Phoenix lodge at their meeting next Wednesday night.

R. C. Lehman and G. H. N. Luhrs are doing assessment work on some claims near the Relief mine.

Our genial agent has taken a short lay-off. His place will be filled during his absence by H. W. Dodge, formerly at Congress Junction.

When Moosha's eyes were sore his physician prescribed a wash of sterilized water. The doc inquired if he had any sterilized water. Moosha replied that his folks had a pond and he guessed it was "sterilized" because the horses were stirring it up all the time.

There have been special meetings at the German Baptist church every night during the past week. Rev. A. Hutchinson of McPherson, Kansas, a speaker of exceptional clearness and force, has been in charge of the meetings.

What to the winds your fears, ye doubters! The world do move. That was settled Friday night in the debate at the Epworth League social. There was an exceptionally large attendance and all the doors of the Park hotel were thrown open by the hospitable hosts, Mr. and Mrs. A. C. Hallard. Following a short business meeting of the league came the debate, the principal feature of the evening. The subject was the one that sometime or another occupies the attention of all who care at all for the advance of truth. The affirmative position was ably supported by A. A. Chalmers, Miss Lockwood and Carl Bunch. The opposite contention was just as ably championed by Rev. T. L. Thumler, a visiting clergyman of the Seventh Day Adventists, Miss Forsyth and Walter Furey. The judges, however, decided that the preponderance of facts deduced lay with the affirmative. Following the debate were recitations by Mr. Chalmers and Miss Maude Furey and singing with special pieces by Mrs. Leo Fisel and J. R. Baker. There was also a spelling match in which Mr. Hester proved that there is a limit even to the ingenuity of a preacher.

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UNIVERSITY MATTERS

Students Getting Spring Fever But Are Not Neglecting Athletics.

Tucson, Feb. 27. (Special Correspondence of The Republican).—The field day held at the 22nd street track yesterday and well attended affair. While only one record was broken, that of the mile run, good time was made in all the races and a very creditable showing was made in the other events. Lack of preparation was responsible for no better records of the old track men. The encouragement given the team by the president and several members of the faculty has had a marked stimulating effect upon this year's track team. Track work and other outdoor sports other than football, have only been attempted in a tentative way generally in the territory, but with the building of gymnasiums and club houses all over the territory, the situation will probably be changed. Bisbee has a well equipped gymnasium and a competent director, Mr. Hurst. Morenci has a fine building and a good instructor, Mr. Jameson. Phoenix has a good club house and a fine lot of college athletes of more than local fame at the Country club. Tucson is erecting an elegant country club and laying off beautiful grounds. The Phoenix high school, the Tempe normal, the Indian school and several other institutions in Arizona are ready and in a position to further outdoor sports and establish athletics on a permanent basis in this territory. The university stands ready to advance pure athletics in every way possible.

The following events and records were noted in the preliminary work Monday: 100 yard dash, Scow first, C. Brown second, Day third, time 19 2/5 seconds; 120 yard hurdle, Russell first, Chapin second, Hatcher third, time 17 seconds; 220 yard dash, Thomas first, time 34 seconds; 440 yard dash, Scow first, Millington second, Woodell third, time 58 seconds; running high jump, Chapin first, Russell second, 5 feet 3 inches; mile run, Millington first, Moore second, time 5 minutes 6 seconds; hammer throw, Day first, 101 feet, Ball second, 96 feet; shot put, Russell first, 26 feet 9 inches, Crable second, 34 feet; running broad jump, Scow first, 18 feet, 9 inches, Russell second, 18 feet 8 inches; pole vault, Monte Mansfield first, 9 feet 6 inches, Thomas second, 5 feet 6 inches; Weddell third, 8 feet. The baseball game in the morning between the varsity and the "preps" was won by the college team, 10 to 7. The college also defeated the Tucson Indians again last Saturday, 6 to 5. Everybody else being busy, the tennis men are out on the courts dexterously wielding the racket.

A movement is on foot to organize a mandolin club. All the boys need a name to make them a full fledged musical club for they certainly have the musical ability. They will probably play at the sophomore class farce which is to be given April 15th in the Tucson opera house.

The debaters will hold a try out contest Saturday evening in the gymnas-

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um. The committee will then decide who shall represent the university in the annual debate with the Tempe normal school. Messrs. Marfoot, Hollingshead, Gebb, Alexander and Trippe will compete for a place on the team Saturday evening. Three members will be chosen from each institution. The subject for debate is "Resolved, That the British parliament better represents the current thought of the people than the American congress." The University of Arizona has the negative side. The debate will be held in Tempe. The exact date has not yet been determined.

The companies are now executing the maneuvers of battalion drill. Captain Maxon expressed himself as agreeably surprised with the facility and ease with which the cadets have taken up that portion of the drill work. Inspection of the battalion will be made by President Babcock Tuesday from 9 to 10 o'clock.

Several members of the faculty and a few students attended the Pan-Hellenic banquet at the San Augustine hotel Thursday evening. This society is a local fraternal organization and is largely composed of Arizona men. H. K. Booth is president, F. S. Nave secretary and Dr. K. C. Babcock treasurer.

Professor Blake and a corps of student assistants are helping Mr. R. N. Leatherwood and Mr. Doran classify and pack the minerals for the St. Louis exposition.

Sherlock Jones left Thursday for Douglas. He will be gone about a week.

N. C. Barnard has discontinued his studies at the university and is assisting Mr. Leatherwood in arranging the minerals for the St. Louis fair.

Mr. Jameson, of Morenci, spent one day at the university assisting Dr. H. Holman in placing the gymnasium apparatus.

R. L. Drane ('03) paid the school of mines a visit Friday.

A majority of the students took advantage of the special reduced rate to see "Richard Carvel" by Andrew Robson last week. The play was greatly enjoyed by all who attended and Mr. Robson was repeatedly encored.

The strategy board has been dissolved until commencement week in June, owing to the absence of Miss Georgia Colton.

The class in chemistry has begun fire assaying. This is the largest class in the history of the university.

The regular appointment of profes-

sors will be announced March 5. Several important changes are rumored.

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THE EUREKA MINE.

Superintendent Gilmore is in Jerome from the Eureka mine, where he reports splendid progress in development. Mr. Gilmore came in for supplies, and a burro train will leave for the mine today. The superintendent brought the good news of having cut the ore chimney they have been drifting for and therein finding the precious metals in abundance. The shoot had just been cut before Mr. Gilmore left the mine, so that he was unable to tell to the extent of the new ore body, but says that the indications are that the body is a large and very rich one. Assay samples brought in certainly indicate that the ore is rich. The cutting of this new ore body in the Eureka property raises the value of that mine hundreds of per cent, demonstrating, as it does, that the property contains an immense body of ore, of a grade that will place the Eureka in a bonanza class.—Jerome News.

DRY PLACER MINING.

James Edmond, L. W. Smith and John Adams, representing eastern capitalists arrived in Yuma last week with machinery to work the rich placers near Tyson's well, this county, with a view of working the gold-bearing gravel by the dry process on a large scale. Laboratory tests of the machine

in New York gave very satisfactory results and is believed by practical miners that the scheme will be a success. The gentlemen left by team overland, via Castle Dome.—Yuma Sentinel.

Revenge.

Little Eddy and his father had been transacting certain disagreeable business in the nursery. When the young man emerged there were tear stains on his cheeks and a lingering look of resentment in his eyes. His Aunt Ella in the tenderness of her heart, thought to divert his mind from his troubles, so she asked him:

"What are you going to be when you grow up?"

An expression of set determination came to his face and he jerked his head menacingly as he answered:

"I'm going to be a father."—Brooklyn Eagle.

A bald-headed man can't lose anything by trying a new patent hair restorer.—Chicago News.

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